

**Department of Public Works and Transportation
Montgomery County, Maryland**

DIVISION OF SOLID WASTE SERVICES



This is an example of the slim-jims that are currently being used in the mailroom at the Middlebrook Apartments. Since the implementation of this program the counter has been cleared of paper, which used to be piled with clutter.

***MONTHLY REPORT
JANUARY 2002***



Printed on Recycled and Recyclable Paper

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, fiscal year to date (FY Total), and current calendar month in the two prior fiscal years. (County fiscal year 2002 began July 1, 2001.)

FACILITY	Jan FY 02	FY 02 Total	Jan FY 01	Jan FY 00
Materials Recovery Facility ⁽¹⁾	6,943 tons	47,256 tons	7,093 tons	4,087 tons
Brunswick Landfill Facility ⁽⁴⁾	19,378 tons	135,582 tons	9,410 tons	8,978 tons
American Ash Recycling ⁽²⁾	N/A	N/A	3,173 tons	2,773 tons
Resource Recovery Facility ⁽³⁾	55,998 tons	346,225 tons	41,013 tons	37,431 tons
Yard Trim Compost Facility	716 tons	44,494 tons	69 tons	40,957 tons

⁽¹⁾MRF tons reported are outgoing.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. For FY02 these tonnages are preliminary, with adjustments made in the December and June monthly reports.

⁽⁴⁾This category only addresses waste sent to the landfill for disposal. It does not include rubble that is recycled at Clean Rock or other locations.

Revenue Analysis and Systems Evaluation – During January program staff:

- Sent out hauler report forms for July through December reporting period;
- Continued processing nonresidential appeals;
- Completed 2nd quarter analysis of FY02 revenues and expenses including revised estimates for yearend;
- Modified FY03 budget spreadsheets, rate models, and fiscal health forecasts for numerous scenarios as needed for OMB-DPWT review process;
- Continued work on applying results of filed tests on nonresidential waste generation for future rate structure;
- Worked with transfer station on procedures for documentation and quality assurance for corrections to transaction records;
- Produced and mailed January hauler credit account invoices, reconciled with County mainframe, and otherwise managed billing collections;
- Sent report of new service addresses to County collection contractors;

- Researched routine level of billing inquiries from residential and commercial properties;
- Researched accounts in the database for corrections in the premise addresses, land use codes, gross floor area and other fields, and sent changes to State Department of Assessment and Taxation for updating;
- Processed 47 changes in the County Tax Division database (TXA170 system) for all new properties assigned temporary solid waste codes;
- Entered 40 appeal results in the TXA170 system;
- Revised only one residential bill this month;
- Completed entering condominium field inspections into Access database;
- Compiled data from field inspections of all residential accounts billed for two dwelling units (218 accounts);
- Began training Joan Foster for duties as Hauler Billing Manager; and
- Temporarily promoted Karen Stephenson into the Program Specialist I position and began her training in billing code quality assurance functions.

CITIZEN COMMITTEES

Facilities Implementation Group – FIG met on January 15, 2002, at the Gothic Barn. Among the topics discussed was an update from Covanta on radiation monitoring at the RRF. The next scheduled FIG meeting is March 12, 2002 at the Gothic Barn.

Solid Waste Advisory Committee – SWAC met Tuesday, January 8, in the EOB 6th floor conference room; 14 SWAC members, 3 County staff and 1 guest were in attendance. DSWS staff presented the Systems Benefit Charge and Revenue Analysis and System Evaluation. The Committee also discussed the Radiation Detection Response Protocol.

COLLECTIONS

Refuse – Refuse collections went as scheduled for the month of January. There were two holidays, New Year's Day, which was a slide holiday and Martin Luther King, Jr. Day, a working holiday. Both holidays went as scheduled without problems.

Recycling – Mixed paper tonnages for the residential program during the past 24 weeks are as follows:

8/6/01 through 8/31/01	9.10 lbs. per household
9/3/01 through 9/28/01	10.08 lbs. per household
10/1/01 through 10/26/01	11.10 lbs. per household
10/29/01 through 11/23/01	10.83 lbs. per household
11/26/01 through 12/21/01	11.52 lbs. per household
12/24/01 through 1/18/02	9.58 lbs. per household

Contractor Performance – In January, DSWS received 420 complaints. This represented a 34.9% decrease from January 2001, which had 645 complaints. Only 8 complaints were not promptly resolved by the contractors; all were corrected by the County with appropriate charges (fines) assessed to the companies.

Enforcement Actions – Twelve citations were issued for violations of the County's Solid Waste Laws:

Nine citations	Not having a valid collectors tag attached	\$5,250
Three citations	Not having a current collectors license	\$2,000

Two NOV's issued for violations of the County's Solid Waste Laws:

One NOV	Failed to store solid waste in a vermin-proof and waterproof container with tight-fitting lids
One NOV	Failed to provide and or maintain an approved container for the storage of solid waste

Customer Service – DSWS received 7,543 incoming calls and 129 follow-up calls were made for quality check. There were 792 blue bins delivered and 338 e-mail requests handled by the Customer Service Staff.

WASTE MINIMIZATION

Latex Paint Management – DSWS continues to promote home management of latex paint, in particular, Waste Paint Hardener, with two ads per month appearing in the Journal and Gazette newspapers. The campaign has reduced the amount of latex paint coming into the HHW program. The quantity of paint handled for this fiscal year so far, is less per participant compared to previous fiscal years.

Computer Recycling – Approximately 28 tons of computers were recycled in January under the computer recycling program.

Department of Environmental Protection's Home Composting and Source Reduction Activities – Met with representatives of the Potomac Conservancy (www.potomac.org) to plan alternative landscaping (less lawn areas, more mulching and native plantings) workshops and demonstration gardens, most of which will be conducted and established by May 2002. Funding for the program was obtained through a grant from the Chesapeake Bay Trust.

Every fourth Friday of the month, the "Green Man" column appears in the Gazette Newspapers; the columns also appear in digest form at greenman.askDEP.com and at www.gazette.net.

Developed new series of Eco Minutes for production and airing weekdays on WARW 94.7 FM.; tips are also found on www.classicrock947.com.

Met with producers from the Public Information Office to plan Green Man cable television program, mixing field reporting and in-studio interviews. Production is expected to begin in July; program may air either monthly or bi-weekly on County Cable, including "digital on-demand" segments, and cover a wide range of topics, from lawns and landscaping, waste reduction, to air quality and environmental education.

Planning continues for an in-vessel composting system for the Department of Corrections to handle approximately 1,500 pounds of food waste daily.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – There were no HHW events in January, although DSWS still assisted walk-in patrons unable to hold materials until the upcoming March 3rd event. The schedule for the March to June HHW collections has been developed. It is available at www.mcrecycles.org and flyers created in-house. The brochure will be available in mid-February. The RFP for HHW services received a waiver from OMB and is currently being processed by the Office of Procurement. The RFP will be out in mid-February. Plans for a roof for the HHW compound are being finalized.

Small Quantity Generator (Ecowise) Program- One SQG/Ecowise event was held in January with 6 patrons attending.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility (RRF): CEM Tracking of RRF Operations – The Continuous Emissions Monitoring System (CEMS) independently tracked the shutdown and start-up of the units. On January 4th, CEMS indicated a spike in the Carbon Monoxide (CO) emissions when unit 2 was brought on-line between 3 p.m. and 4 p.m. Since then, all 3 units operated till the end of January. There were no equipment malfunctions in January.

Covanta submitted reports to the County containing the results of the annual compliance stack tests conducted in November 2001. The results indicate that the facility is in compliance with all requirements in the Air Permit to Operate.

The CEMS website has been functioning continuously throughout January. However, the problem of getting midnight data remains unsolved.

In the first week of January, the set of eight CEMS CD-ROM's was updated to include CEMS data up to December 31, 2001. Copies of the CD-ROM's were placed in the Rockville and Poolesville libraries and distributed to DSWS staff and FIG.

As reported in the December report, EPA delegated the authority to MDE to administer the Title V Air Permit program. On January 9th, MDE conducted a workshop to brief all Title V Permit holders on the procedures to follow for complying with the permit requirements. MDE will continue to be the primary contact for all permit compliance purposes.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology –

In January, Bentech made repairs to the refractory of the evaporator. Still, other problems prevented startup of the evaporator. So, the backup flare has been operating for most of the time in January.

FIG-SWAC Air Quality Subcommittee – In January, all Air Quality Subcommittee members submitted their comments on the Epidemiology report. ENSR is currently preparing the final report, which is expected by the end of February. A meeting of the Air Quality Subcommittee will be scheduled in the first week of March to discuss the report for briefing FIG in the March meeting. Laboratory analysis of samples collected in the Non-Air Media Sampling Program was completed in December. ENSR is currently preparing a draft report. The report is expected in March 2002.

ENSR is still working on the update of the RRF Health Risk Study. The draft report is expected in March.

Contractual Work — The meteorological services contract will expire on June 3, 2002. In February, the process will start to issue a RFP or a mini-contract before the current contract expires.

RECYCLING

Public Outreach – The Recycling Task Force meeting was held on January 16th. The canvassing effort to go door-to-door to educate residents about the mixed paper recycling program continued. Recruiting and retaining canvassers has been a challenge. Additional advertisements are being run in numerous college and university newspapers and job counseling offices. The pay rate has been increased by \$1/hour, and a bonus for those canvassers who can drive other canvassers between transit points and canvass neighborhoods is being offered.

Commercial Recycling and Waste Reduction – The Business Recycling Handbook has been printed and is being distributed to businesses. Staff continued to perform on-site evaluations of recycling programs for businesses and responded to eight complaints. One NOV was issued in January for a solid waste violation. Reminder post cards for annual reports, which are due February 1st, were mailed to all large-businesses (250 or more employees) on January 7th. Staff met with several businesses including private schools to assist in setting up recycling programs.

Multi-Family Recycling – Staff continued to perform on-site evaluations of recycling programs, work with property managers and residents to provide assistance and

support. The annual reports have been received from all multi-family properties and are being reviewed and processed. Staff continued to monitor the progress of adding mixed paper collection containers in the mailrooms of high-rise apartment buildings.

Mixed Paper Recycling – Canvassing will be completed in Area 7 shortly. Canvassers are equipped with mixed paper recycling information and paper shopping bags containing samples of the different types of mixed paper items that can be recycled. They provide a quick demonstration using this kit. They also ask residents to sign a recycling pledge, stating that they will recycle as much as possible. Base information for the next canvass area, Area 11, is being collected, and canvass routes will be planned. Staff continues monitoring the amounts of mixed paper being recycled in each area, to troubleshoot and provide additional education to those low performance areas.

Volunteer Activities - For the month of January, volunteers participated in the following activities:

- The Volunteer Program Manager assisted in the Canvassing Initiative.
- MarketPro Computer Show and Sale, with an information booth on computer and other recycling.

PILOT PROGRAMS

Mixed Paper Pilot – We continue to monitor the Potomac toter program. The five collections in January produced the following results:

1/3/02	16,100	19.88 lbs. per house
1/9/02	12,500	15.43 lbs. per house
1/16/02	15,400	19.01 lbs. per house
1/23/02	13,840	17.09 lbs. per house
1/30/02	<u>16,040</u>	<u>19.80</u> lbs. per house
	73,880	18.24 lbs. per house average

The current average weight per house for the 19 weeks of the toter program is 21.10 lbs. as opposed to 13.99 lbs. per house before the toter program. This represents a 50.82% increase in the mixed paper capture rate since the start of the toter program.

Tubgrinding Pilot – Tubgrinding of screened reject material at the Compost Facility is ongoing.

Ash Recycling Pilot – The ash recycling pilot program ended in June 2001. The Authority received proposals for a long-term ash recycling program on September 17, 2001; the proposals are being reviewed. The parent company of the apparent low bidder has developed financial problems and is in the process of selling the company who responded to our RFP. We will resume proposal evaluations at the conclusion of

this sale. The County and Authority personnel visited a referenced ash recycling facility in New Jersey.

FACILITY ACTIVITIES

Resource Recovery Facility – With the exception of 3 days on number 2 boiler, the RRF ran with three units for the entire month of January. (Number 2's planned maintenance outage ended Jan 3).

The ad hoc committee for developing the protocol for radiation alarms held its second conference call on January 25th. Several good comments were received from both SWAC and FIG. Covanta is revising the protocol and additional conferences will be held once the changes are complete.

There were no operating curtailments from Mirant and no turbine/generator trips during the month.

Installation of the new radiation detectors at the Transfer Station continues and is expected to be complete in February.

On January 22, 2002, the RRF successfully ran its winter maximum generation test and proved a net output capability of 56.4 MW/hr.

There were no air or water quality excursions during the month.

The following environmental activities occurred:

- Submitted the 4th quarter 2001 Operations and Emissions (CEMS) report to MDE.
- Submitted the EPA Semiannual & Annual Report required by 40 CFR 60 Subpart Cb/Ea.
- Submitted the 2001 Annual Sewage Sludge Generators Report to MDE.
- Submitted the 4th Qtr 2001 NPDES report to MDE.
- Submitted the November 2001 Potable Water Monthly Operating Report to MDE.

Materials Recovery Facility - Approximately 1,965 tons of commingled material were shipped out after processing, and approximately 4,978 tons of mixed paper were loaded out and transferred to the Office Paper Systems processing facility.

Work will soon begin for the new processing system design.

More speed bumps were installed near the scale house. Additional signage was installed to caution drivers about the speed bumps.

Oaks Landfill – DSWS executed an emergency procurement in order to perform several urgent repairs on the landfill gas management system. While the gas system was down or running below necessary levels to control all the gas generated by the landfill, methane migration occurred and affected on-site gas monitoring wells. DSWS

had soils and wells tested for methane on-site and off-site. Fortunately, there were no methane levels of concern beyond the landfill property. Repairs were performed, and the system is back in service, although several upgrades to assure the long-term reliability of the system, such as the replacement of corroding steel pipes, are being planned for the near future.

SCS Engineers is continuing work on design plans for subdividing the leachate storage lagoons to facilitate long-term maintenance.

The County's consultant, R.W. Beck (a subcontractor to Post, Buckley, Schuh & Jernigan) is assessing the feasibility of the County constructing a gas-to-energy facility at the Oaks Landfill.

Gude Landfill – URS resubmitted design documents for the repair of several poorly drained areas at the landfill.

Beantown Dump – DSWS' contractor is finalizing specifications for installation of a gas venting system at the old Beantown dumpsite. The County finished work on executing agreements for the installation of gas extraction wells with property owners. Proposals for the installation of methane gas detectors in businesses on and near the former footprint of the dump were received on Friday January 11th and are being assessed.

Transfer Station – In January, Covanta shipped via rail 46,279 tons of processible waste from the Transfer Station to the RRF; 5,504 more tons than shipped in January 2001.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

Installation of new radiation detection equipment at the scales was started.

Site 2 Landfill Properties – Work continues on the Chiswell Farm renovation. DFS received six proposals for continued renovation, leasing and occupancy of the property. Two internal meetings were held in January to prepare for interviews of the proposals; interviews are scheduled for early February.

Solid Waste Facilities Master Plan – Staff is reviewing proposals received from contractors to update the Plan.

Berm construction between the Compost Facility and the Gothic Barn is complete; plants will be installed in spring.

The Winter Traffic Count to determine the impact of the County facilities on the Dickerson community was conducted from January 7-11, 2002. A draft report will be presented to FIG in March.

Yard Trim Compost Facility – In the month of January, 716 tons of leaves were received at the Dickerson Yard Trim Facility for composting.

Bagging Operation – No bagged Leafgro® was produced at the facility in January; 12,750 bags of Leafgro® were shipped to distributors.

Linden Farm Renovations - Under the signed bagging agreement, the County is to renovate the Feed Barn and Bank Barn. Dean Fitzgerald, the contractor, started the renovation work in June. The first phase of the work is complete.

Out-of-County Haul

Brunswick County, Virginia - During the month of January, approximately 15,955 tons of ash residue and 3,423 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. Landfill in Brunswick County, Virginia. About 482 tons of material was recycled at Clean Earth including 23 tons of wood. Maintenance on the ash container fleet, including replacement of corroded side panels, continues at the Collier Rail Yard near Petersburg, Virginia. Several containers were painted with custom, corrosion-resistant coatings and are being monitored for durability and resistance to rust.

Ash Recycling – The County and NEA put negotiations with a proposed ash recycling company on hold because the company is undergoing corporate restructuring.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	301-840-2370
Materials Recovery Facility	301-840-2701 (County Office) 301-417-1447 (MES)
Resource Recovery Facility	240-777-6439 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	www.MCRecycles.org

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

TOPIC OR FACILITY	
Current Recycling Rate in Montgomery County	36.5%
Recycling Goal	45% by December 2002 50% by December 2004
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 TPD on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations limited to receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY01 tons received- 59,643
# Residences receiving trash collection by County contractors	84,788
# Residences receiving collection of recyclables in blue bins and yard waste collection	200,206
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling, Inc.
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CDL	Commercial Driver's License
CEMS	Continuous Emissions Monitoring System
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Transportation Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DNR	Maryland Department of Natural Resources
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
Mg/l	milligrams per liter
M-NCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NEA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
OLAC	Oaks Landfill Advisory Commission
OMB	Office of Management and Budget
OPS	Office Paper Systems
PEPCO	Potomac Electric Power Company
PSA	Public Service Announcement
RFP	Request for Proposal
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SHA	State Highway Administration
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
T.R.R.A.C.	Think Reduce and Recycle at Apartments and Condominiums
UT	Ultra-sonic Testing
WM	Waste Management
YTCF	Yard Trim Composting Facility